

**Canyon Ferry Powerplant
30-100 MW**

Ancillary Services

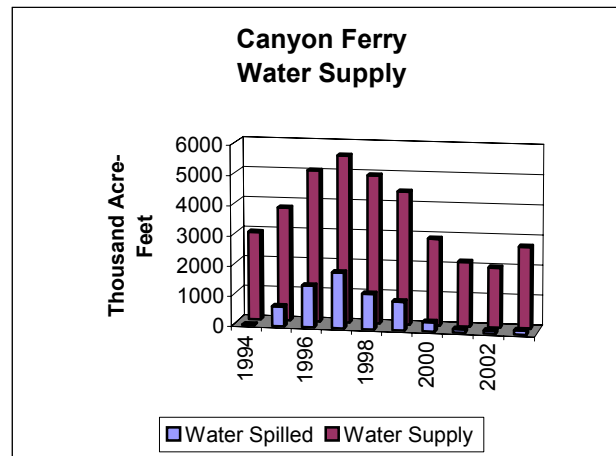
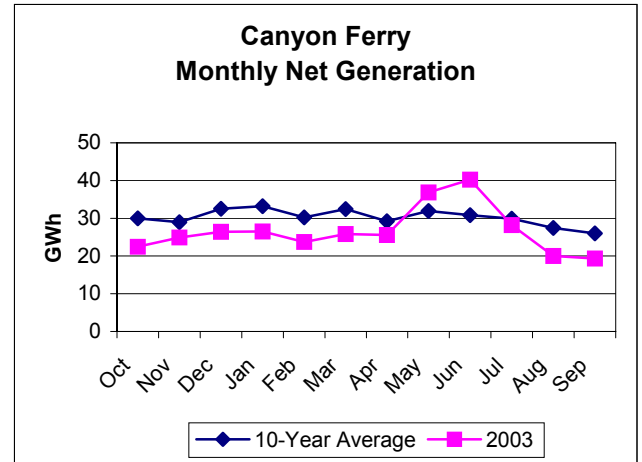
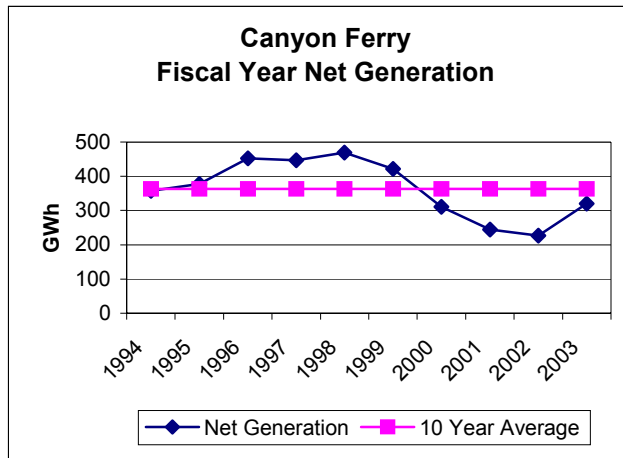
Canyon Ferry Ancillary Services	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	No
Black Start	Yes
Voltage Support	Yes

Generators

Canyon Ferry Generators Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	16,667	0	16,667
2	16,667	0	16,667
3	16,667	0	16,667
3 Units	50,000	0	50,000

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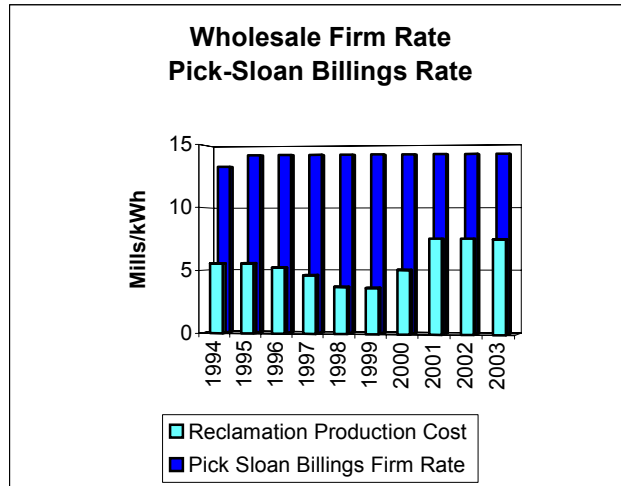
Generation



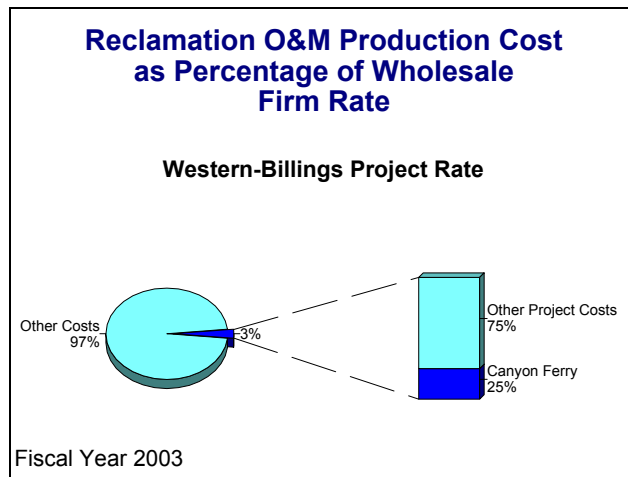
Drought conditions encountered for the fourth consecutive year.

Prime Laboratory Benchmarks

Benchmark 1 Wholesale Firm Rate

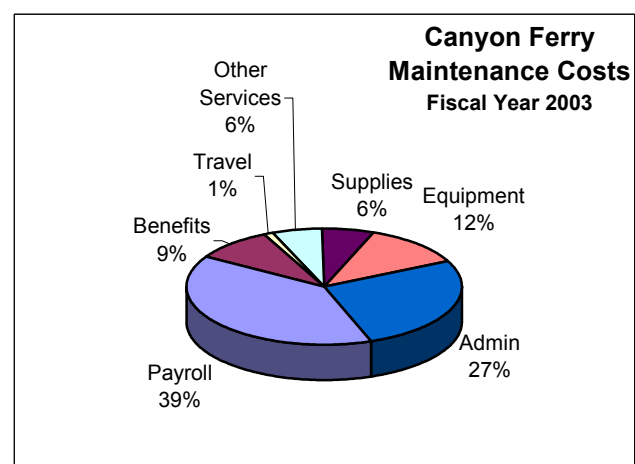
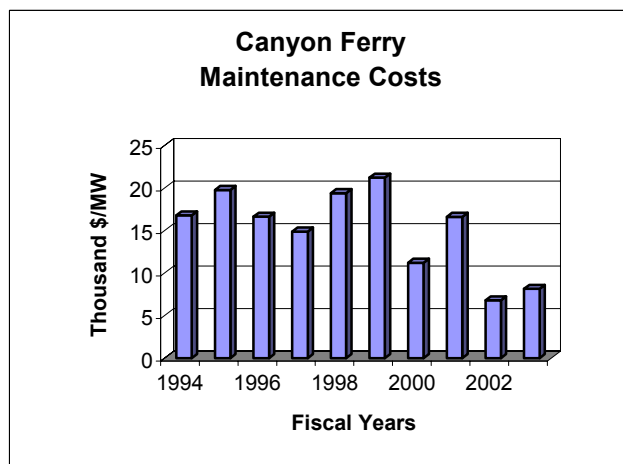
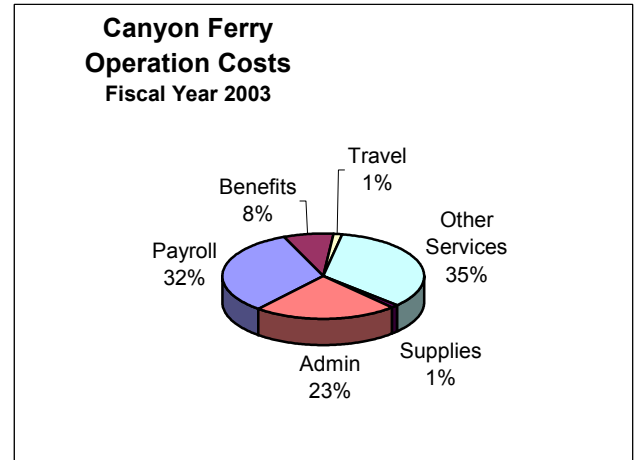
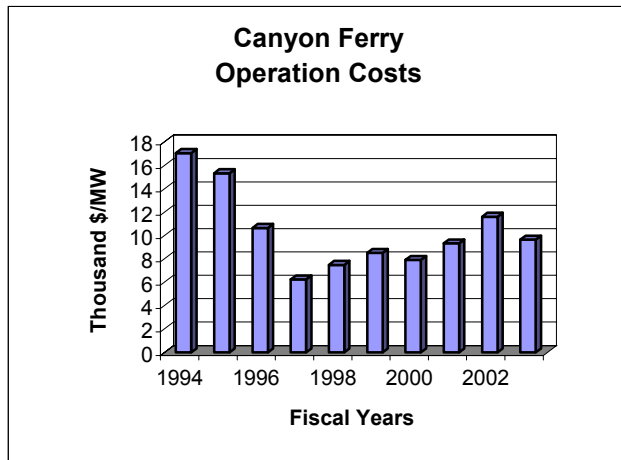


Benchmark 2 Reclamation's Production Cost as Percentage of Wholesale Firm Rate



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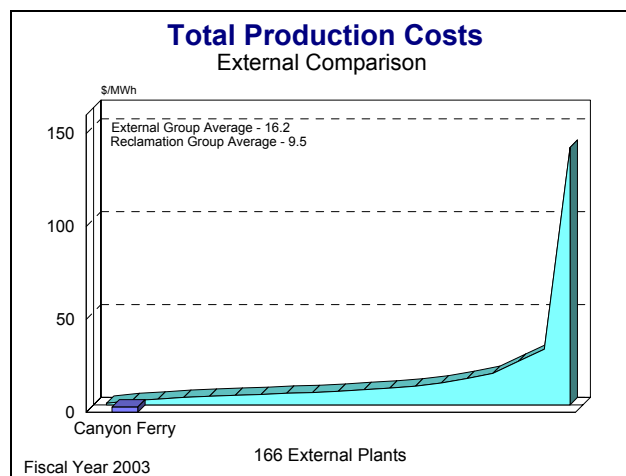
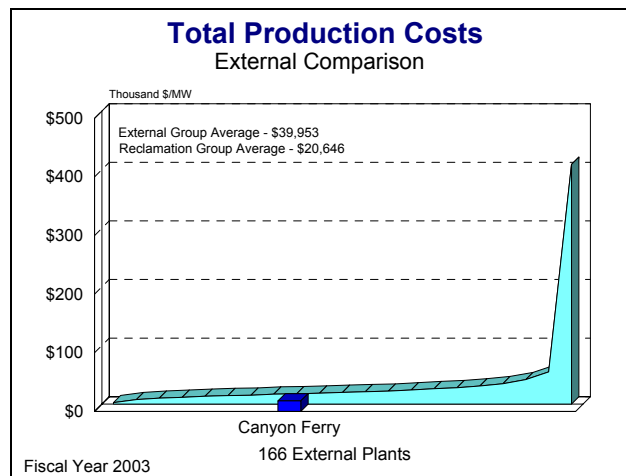
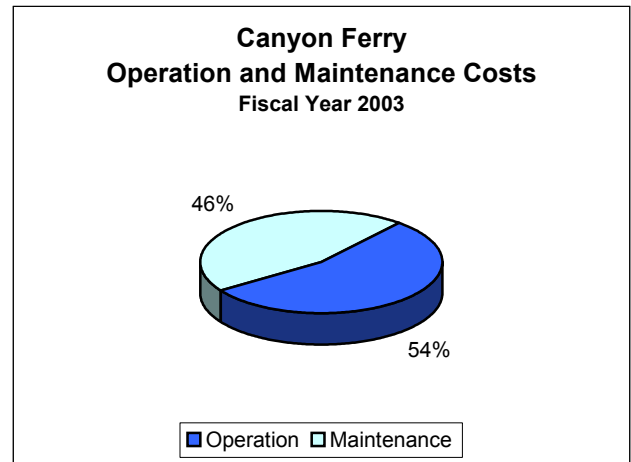
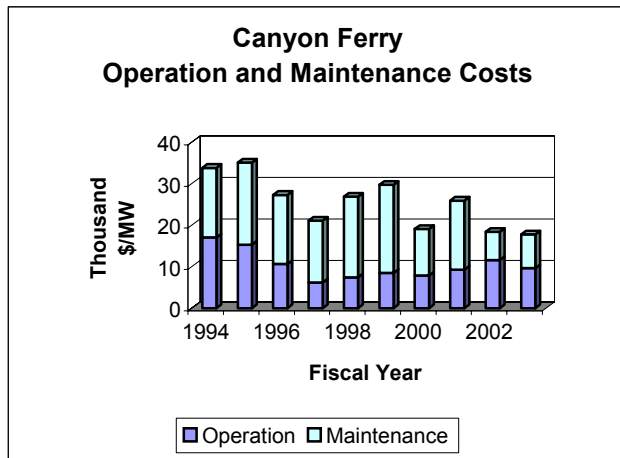
Benchmark 3 Production Cost



FY-02 maintenance costs include extraordinary maintenance costs for stabilization of the riverbank downstream of the powerplant.

Canyon Ferry Powerplant 30-100 MW

Benchmark 3 Production Cost

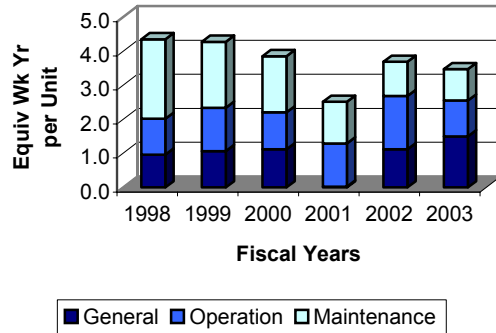


**Benchmark 4
Workforce Deployment**

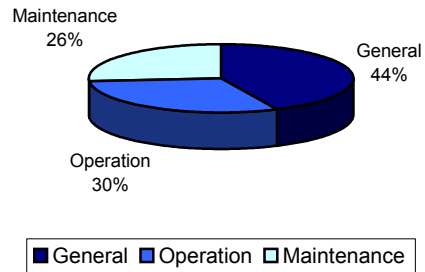
**Canyon Ferry
FY-2003 Equivalent
Work Year Staffing Levels**

	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work year per Generating Unit	Total Equiv Work Year per Megawatt
General	4.00	0.43	0.07	4.49	1.50	0.09
Operation	2.85	0.31	0.00	3.16	1.05	0.06
Maintenance	2.49	0.27	0.00	2.76	0.92	0.06
Total Staffing	9.35	1.00	0.07	10.41	3.47	0.21

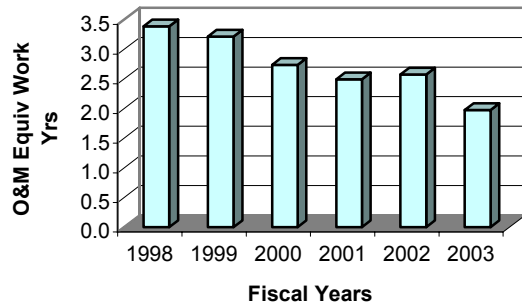
**Canyon Ferry
Equivalent Work Year per Unit**



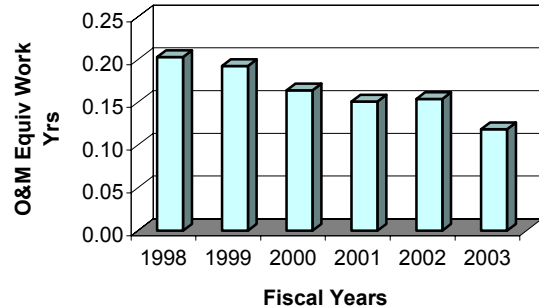
**Canyon Ferry
Equivalent Work Year per Unit
2003**



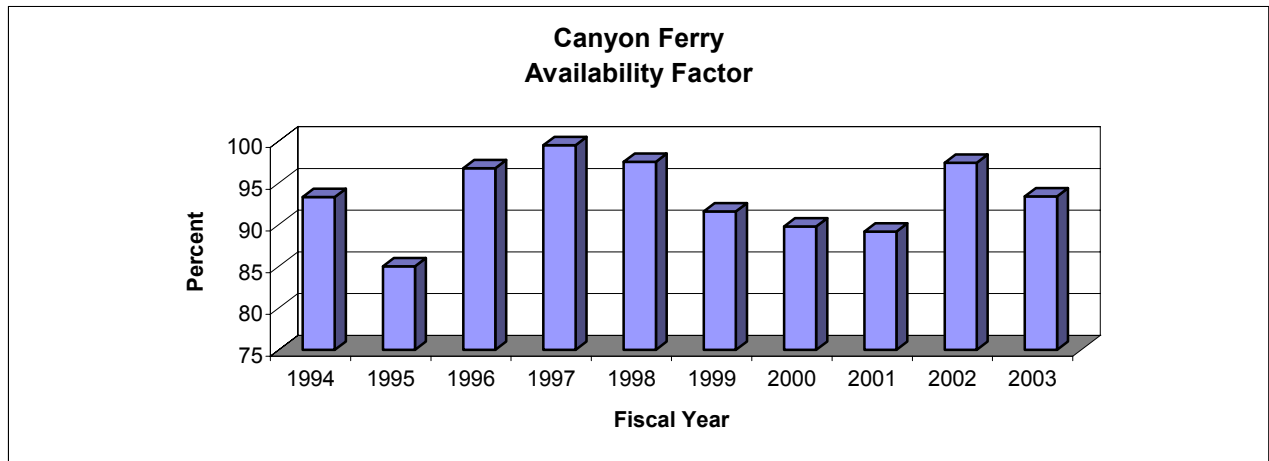
**Canyon Ferry
O&M Equivalent Work Year per Unit**



**Canyon Ferry
O&M Equivalent Work Year per MW**

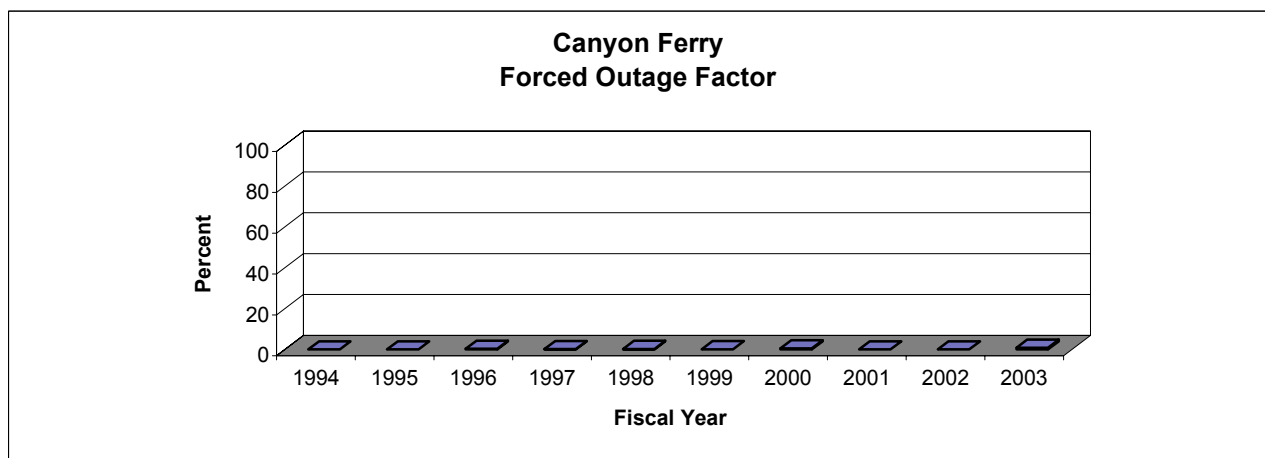


**Benchmark 5
Availability Factor**

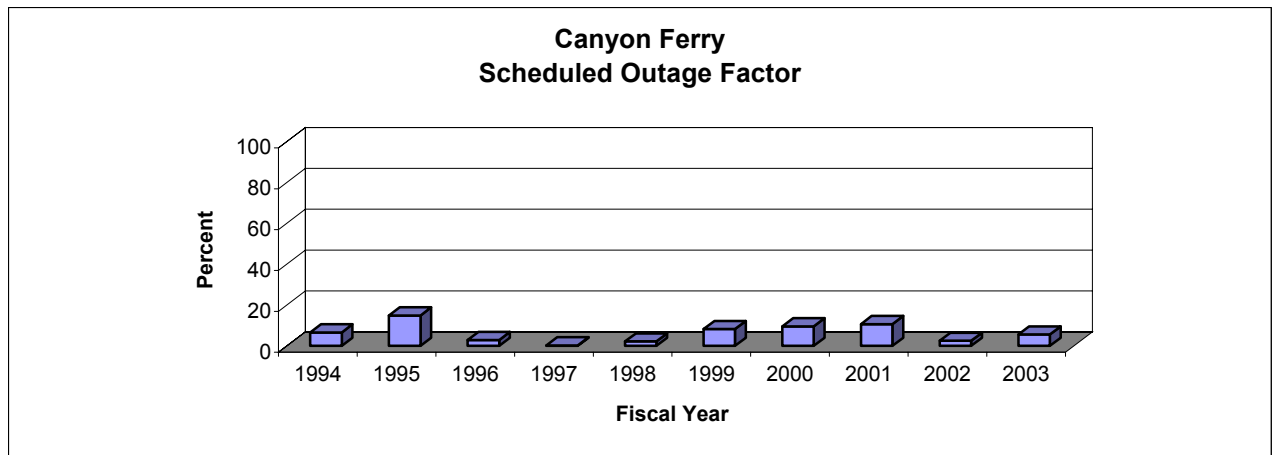


FY-94 and FY-95 – Extended unit outages due to automating and remotely controlling the powerplant.
FY-99, FY-00, FY-01 – Each included a 6-week extended outage for refurbishing the penstock's fixed-wheel gate and overhauling the hydraulic cylinders.

**Benchmark 6
Forced Outage Factor**



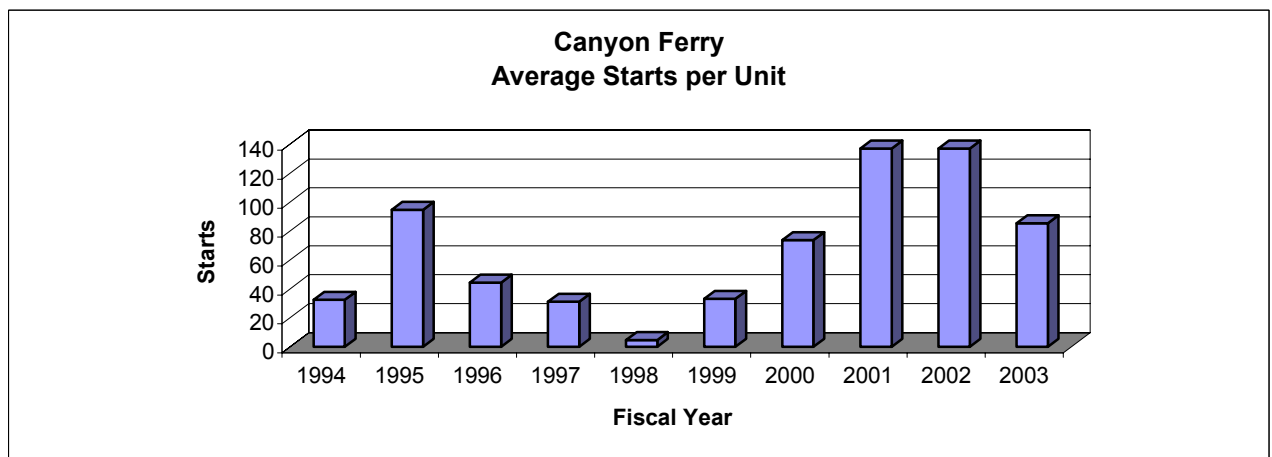
**Benchmark 7
Scheduled Outage Factor**



FY-95 – Automation work on all 3 units

FY-99, FY-00, FY-01 – Each included a 6-week extended outage for refurbishing the penstock's fixed-wheel gate and overhauling the hydraulic cylinders.

Starts



Benchmark Data Comparison

Fiscal Year 2003	Canyon Ferry Powerplant	Reclamation Average 30-100 MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	14.2	Not Applicable	*23.1	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	0.75%	Not Applicable	12.0%	Not Applicable	Not Applicable
O&M Cost \$/MWh	2.8	7.6	2.7	16.2	1.1
O&M Costs \$/MW	17,794	19,010	7,315	39,953	3,108
O&M Equiv Work Year per MW	0.1	0.1	0.04	Not Available	0.010
Availability Factor	93.4	87.6	83.6	**88.9	99.1
Forced Outage Factor	0.9	0.5	1.5	**2.4	0.0
Scheduled Outage Factor	5.7	11.8	14.9	**8.7	0.0

*Weighted by Net Generation
**2002 NERC Average

The Missouri River Basin experienced its fourth consecutive year of drought conditions in FY-2003, which resulted in below average generation (MWh).